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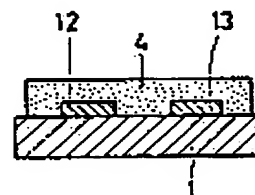
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(54) OXYGEN SENSOR

(57)Abstract:

PURPOSE: To improve the responsiveness of an oxygen sensor which uses titania of an electric resistance change type by forming the electrodes of an material added with rhodium or the rhodium itself.

CONSTITUTION: The two electrodes 12, 13, spaced at a prescribed distance, are mounted to one side of an alumina substrate 1 and a titania layer 4 is coated thereon in the form of covering the two electrodes 12, 13. An oxygen concn. is detected by the electric resistance change of the titania layer interposed between the two electrodes 12 and 13. The electrodes 12, 13 are formed of the material added with the rhodium or the rhodium itself. The rhodium is added at about $\geq 1\text{wt}\%$ to platinum which is an electrode forming material in the case of constituting the electrodes of the material added with the rhodium. The response delay in the control of, for example, the changeover from the region where the oxygen concn. is low (air-fuel ratio rich) to the region where said concn. is high (air-fuel ratio lean) in accordance with the output voltage of the oxygen sensor is thereby suppressed.



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